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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, October 11, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

ALLIANCE PETROLEUM CO., LLC  
101 MCQUISTON DR

JACKSON CITY, PA 16133

Re: Permit approval for 458631 A.C. CANTERBURY 7195  
47-005-01167-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: 458631 A.C. CANTERBURY 7195  
Farm Name: DONALD AND SHERYL BUGA  
U.S. WELL NUMBER: 47-005-01167-00-00  
Vertical Plugging  
Date Issued: 10/11/2019

I

47-005-01167P

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B  
Rev. 2/01

1) Date 08-20, 20 19  
2) Operator's  
Well No. 458631 A.C. Canterbury 7195  
3) API Well No. 47-005 - 01167

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 864.8 Watershed Turtle Creek  
District Washington County Boone Quadrangle Madison

6) Well Operator Alliance Petroleum Corporation, LLC 7) Designated Agent David Dean  
Address 1997 Old Weston Road Address 1997 Old Weston Road  
Buckhannon, WV. 26201 Buckhannon, WV. 26201

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Jeffery Smith Name R and J Well Service  
Address 5369 Big Tyler Road Address 1087 Raccoon Rd.  
Charleston, WV. 25313 Hueysville, KY. 41640

10) Work Order: The work order for the manner of plugging this well is as follows:

*OK gwm*

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

## PLUGGING PROCEDURE

458631

BOONE COUNTY, WEST VIRGINIA

API# 47-005-01167

BY: JM

DATE: 7/24/2019

Current Status**Csg Schedule**

- 10" csg @ 157'
- 8 1/4" csg @ 853'
- 6 5/8" csg @ 1106' w/ packer set at 1097'
- TD @ 1295'

**Completion**

- Not Shot

Fresh water @ 345'

Coal @ 508'- 510' *± 100-115*

Gas Shows @ 1111', 1134', 1173', 1219'

Elevation 865'

**Objective: Plug and abandon**

- 1) Prepare road and location.
- 2) MIRU service rig and support equipment.
- 3) Blow well down. Check TD.
- 4) TIH w/ tbg to 1219'. Kill well as need/ 6% bentonite gel. Pump 163' C1A cement plug from **1219' to 1056'**
- 5) TOOH w/ tbg. Free point 6 5/8" csg. Shoot or rip csg at free point. TOOH w/ 6 5/8" csg. A 100' C1A cement plug must be set across csg cut. Any plugs below that will remain behind 6 5/8" csg must be shot or ripped at bottom of plug and then every 50' through plug
- 6) TIH w/ tbg to 1056'. Pump 6% bentonite gel from **1056'- 903'**
- 7) TOOH w/ tbg to 903'. Pump 138' C1A cement plug from **903' to 765'**
- 8) TOOH w/ tbg. Free point 8 1/4" csg. Shoot or rip csg at free point. TOOH w/ 8 1/4" csg. A 100' C1A cement plug must be set across csg cut. Any plugs below that will remain behind 8 1/4" csg must be shot or ripped at bottom of plug and then every 50' through plug
- 9) TIH w/ tbg to 765'. Pump 6% bentonite gel from **765' to 560'**.
- 10) TOOH w/ tbg to 560'. Pump 100' C1A cement plug from **560' to 460'**
- 11) TIH w/ tbg to 460'. Pump 6% bentonite gel from **460' to 395'**.
- 12) TOOH w/ tbg to 395'. Pump 100' C1A cement plug from **395' to 295'**
- 13) TOOH w/ tbg to 295'. Pump 6% bentonite gel from **295' to 197'**.

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- 14) TOOH w/ tbg. Free point 10" csg. Shoot or rip csg at free point. TOOH w/ 10" csg. A 100' C1A cement plug must be set across csg cut. Any plugs below that will remain behind 10" csg must be shot or ripped at bottom of plug and then every 50' through plug
- 15) TOOH w/ tbg to 197'. Pump 235' C1A cement from **197' to Surface**.
- 16) Pull work string and top off w/cement.
- 17) Erect permanent monument (30" minimum height and 6" minimum diameter pipe) with API # (1/2" height numbering) and reclaim.

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Record of HOPE NATURAL GAS COMPANY  
 Well No. 7195 Name A.C. Canterbury District Cabin Creek  
 District Washington County Boone State W.Va.

Location made 4- 2-28 First Work Done 4-2-28  
 Rig Commenced 4-19-28 Rig Completed 4-24-28  
 Drilling Commenced 4-26-28 Drilling Completed 6- 8-28  
 Rig Contractor Hope Nat. Gas Co. Drilling Contractor Hope N.G. Co. Stg. #602  
 Drillers Charles F. Logue; Roy Grimm & Bert O. Ammons Tool Dressers Omer O. Barker; Glendon Pettit & Ernest F. Haught

Formation	Open or Close Hard or Soft	Top	Bottom	S.L. Meas.	Water Found	Gas Found
Conductor						
Native Coal			16 1/2			
Black Slate		0	20			
Lime		20	80			
Slate		80	100			
Pittsburgh Coal	Sand	100	115			
Lime		115	130			
Slate		130	145			
Sand		145	175			
Slate & Shells		175	185			
Sand		185	245	267		
Slate		245	260			
Lime & Sand		260	435		345	hole full
Black Slate		435	508			
Coal		508	510			Bad 4 1/2" hole
Sand		510	725			
Slate		725	730			
Red R.		730	750			
Slate & Shells		750	790			
Sand		790	848	815		
Slate		848	865			
Lime		865	880	846		
Slate		880	889			
Red Rock		889	930			
Second Salt Sand	Slate	930	945			
Lime		945	954			
Slate & Shells		954	1000			
Maxon		1000	1018			
Slate & Shells		1018	1030			
Little Lime		1030	1048			
White Slate		1048	1054			
Big Lime		1054	1290	1094		
Little Gas				1111	1111	2/10 W 1"
Big Injun				1219	1134	4/10 W 2"
TOTAL DEPTH				1295	1173	8/10 W 2"
					1219 to 1221	

Boone 1167

Total test 24/10 Merc. thru 2". Blew down to 54/10 W through 3"

CASING RECORD				Transferred	Left at	S.L.
	Charged to Well	Put in Well	Pulled Out	Before Completing	Well Not in use	Meas.
10" Csg.	293' 2"	271' 3"	121' 7"	140' 9"		271
8 1/2" "	894 9	853 1			41' 8"	846
6-5/8"	1190 11	1103 8			87 3	1094

Parted 10" Csg. caved in over what was left in

PACKER RECORD			Threads cut off 10" Bottom Joint
Amount Anchor	Amount Above		Steel Shoe on bottom of 8"
8 1/2 x 6-5/8 Anchor	6'	1097' 8"	6-5/8 Shoe on bottom

NOT SHOT  
 NOT CEMENTED

Approved C. M. Fleming

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# HOPE NATURAL GAS COMPANY

JOHN N. BRADLEY  
LOCATION FOR WELL

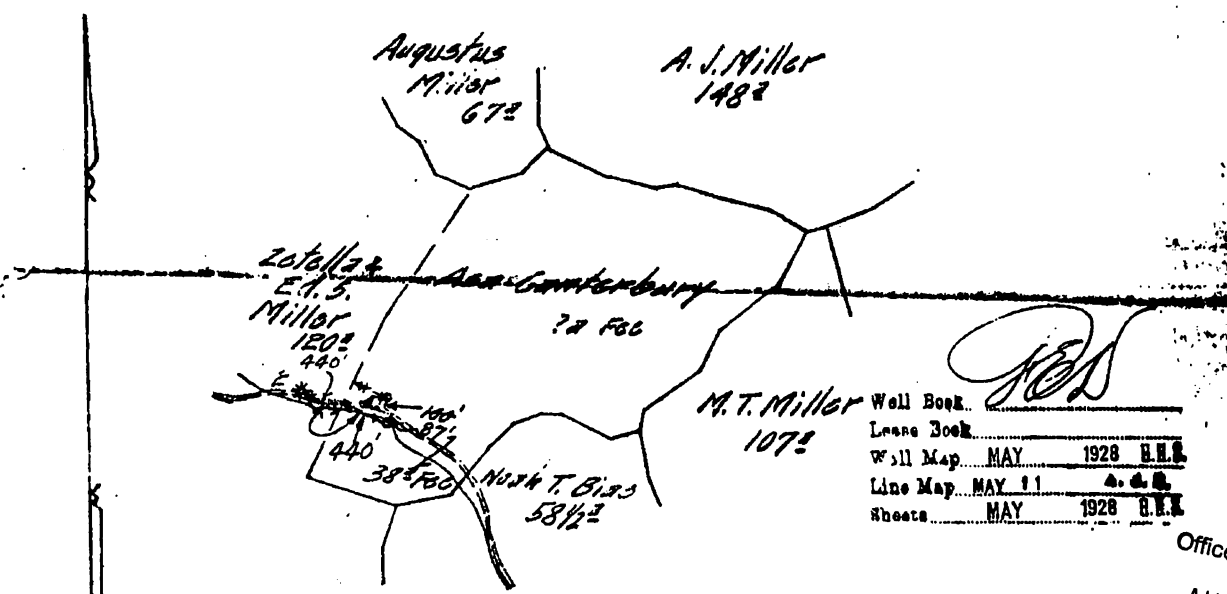
LOCATION FOR WELL No. 7195

Instructions H

No. 1876 Acres 40 N. 97 E. 72  
 District Duette Creek County, West Virginia  
 Fars. on waters of Duette Creek  
 Location made in Pittsburgh Mar 16-28 Sent to Clarksburg Mar 17-28  
 Scale one inch equals 800 feet  
 Location to be 100 feet from existing road, perpendicular

*Book 1167*

*154-W  
164-W*



Well Book	
Lease Book	
Well Map	MAY 1928 B.E.B.
Line Map	MAY 11 A.C.B.
Sheets	MAY 1928 B.E.B.

Field Book 450 Page 21

Note:- Use No. 2 (TWO) Stakes

Ref. N 2°20' E 77 feet to B. Walnut  
N 32°50' W 65 feet to Water Birch

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*Abs. sent to  
Geo. Cross  
3-15-28,*

005-1167

TITLE RESERVE See road around the buildings

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE September 1, 1928

Same Lease on which Located Well No. \_\_\_\_\_

Location Made March 26, 1928 by H. D. Graham As per plat, except as noted. On field map  
April 2, 1928 Returned to Pittsburgh April 2, 1928

Location changed on account of Original location came on steep ground and very near O. Bot. Co. line  
Authorized by J. B. Corrin Date April 2, 1928 Signed S. H. Bradley  
By- Talley

WW-4A  
Revised 6-07

1) Date: 08-20-2019  
2) Operator's Well Number  
458631 A.C Canterbury

3) API Well No.: 47 - 005 - 01167

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Donald and Sheryl Buckner</u>	Name _____
Address <u>524 Low Gap Rd.</u>	Address _____
<u>Danville, WV. 25053</u>	_____
(b) Name _____	<b>(b) Coal Owner(s) with Declaration</b>
Address _____	Name <u>No Declarations</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Jeffery Smith</u>	<b>(c) Coal Lessee with Declaration</b>
Address <u>5369 Blg Tyler Rd.</u>	Name _____
<u>Charleston, WV. 25313</u>	Address _____
Telephone <u>681-313-6743</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: Alliance Petroleum Corporation, LLC  
 By: David Dean  
 Its: Executive VP Production  
 Address: 1997 Old Weston Road  
Buckhannon, WV. 26201  
 Telephone: 304-471-2319

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Subscribed and sworn before me this 20th day of August 2019  
Hartsel E. McCauley  
My Commission Expires November 12, 2019



**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



WW-9  
(5/16)

API Number 47 - 005 - 01167  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Alliance Petroleum Corporation, LLC OP Code \_\_\_\_\_

Watershed (HUC 10) Turtle Creek Quadrangle Madison

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Formation Fluids

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20 ml

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number UIC2D0550319 )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature David Dean

Company Official (Typed Name) David Dean

Company Official Title VP Production

Subscribed and sworn before me this 20th day of August, 2019

Hartsel E. McCauley Notary Public

My commission expires November 12, 2019



Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 1+/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount \_\_\_\_\_ lbs/acre

Mulch 2 Tons/acre

**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike	5
Annual Rye	15		

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

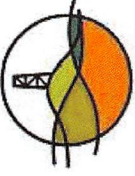
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

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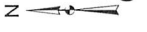
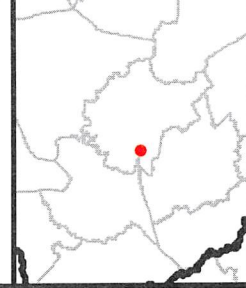
Diversified Gas & Oil Corporation  
100 Diversified Way  
Pikeville KY, 41051

458631

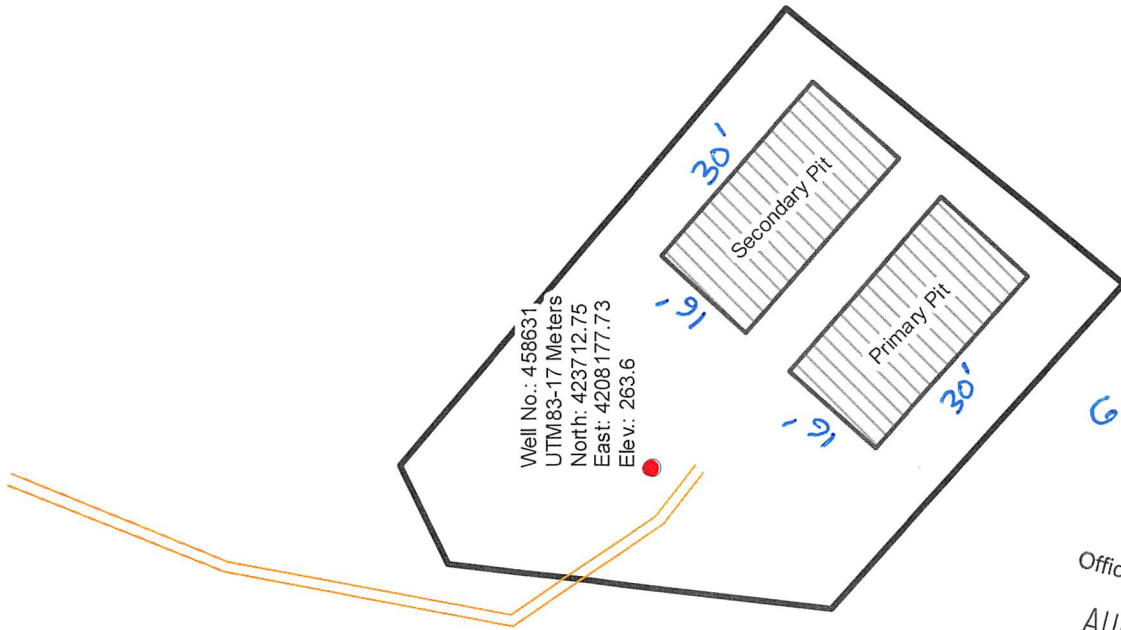
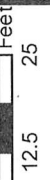
Plugging Map

**Legend**

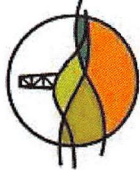
- Well
- ⊗ Sediment Control
- Access Road
- ▨ Pits
- ▭ Pad



1" = 25'



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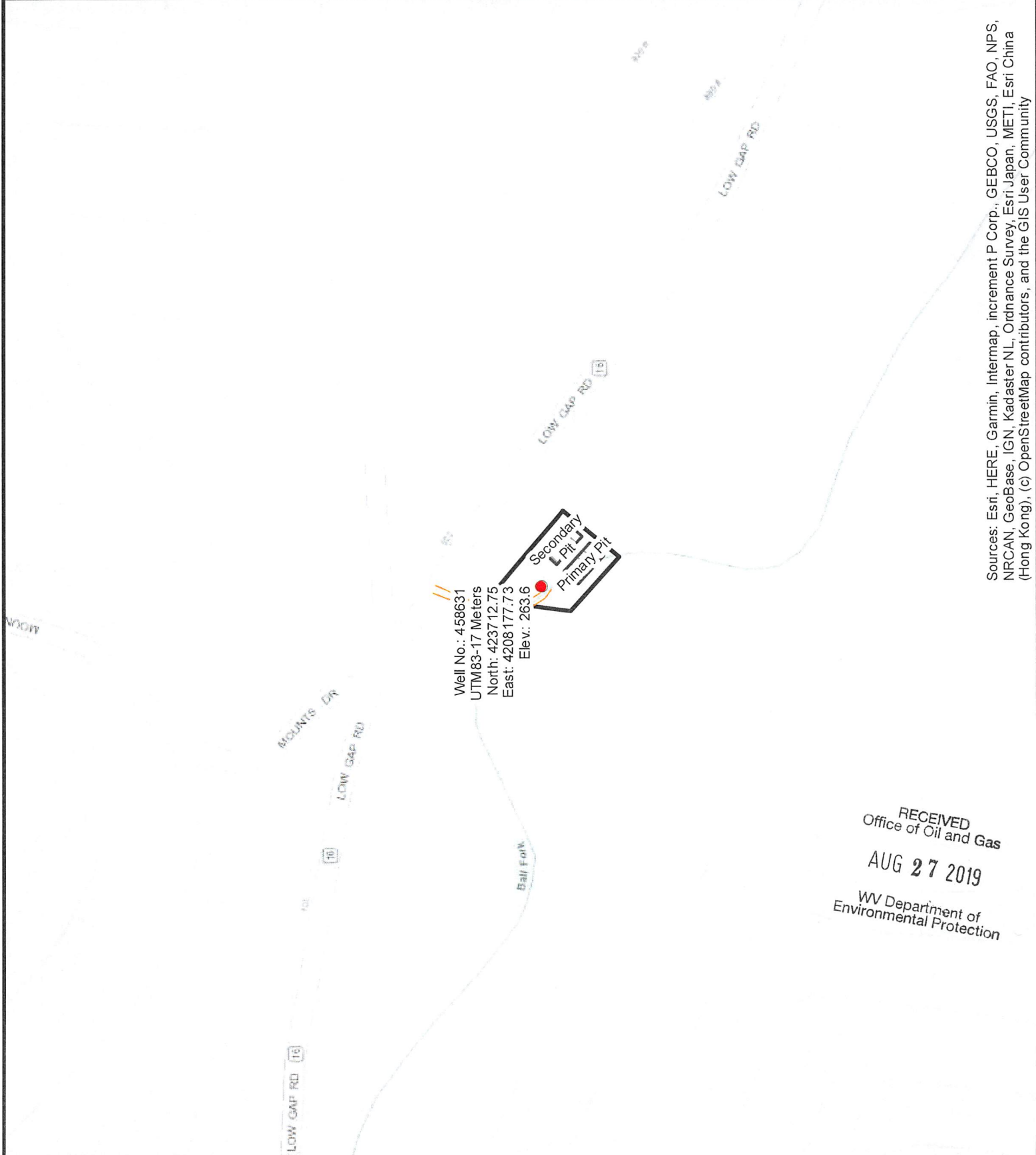
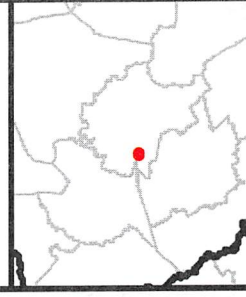
Diversified Gas & Oil Corporation  
100 Diversified Way  
Pikeville KY, 41051

458631

Plugging Map

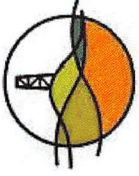
**Legend**

-  Well
-  Sediment Control
-  Access Road
-  Pits
-  Pad



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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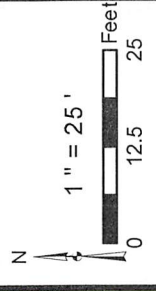
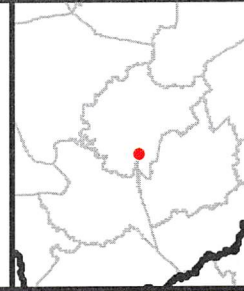
Diversified Gas & Oil Corporation  
100 Diversified Way  
Pikeville KY, 41051

458631

Plugging Map

**Legend**

- Well
- ✕ Sediment Control
- Access Road
- ▨ Pits
- ▭ Pad

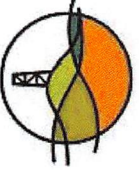


Well No.: 458631  
 UTM 83-17 Meters  
 North: 4237.12.75  
 East: 4208177.73  
 Elev.: 263.6

Secondary Pit

Primary Pit

Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



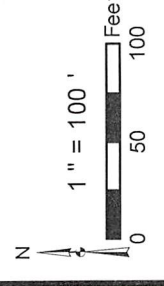
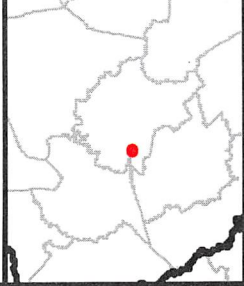
Diversified Gas & Oil Corporation  
100 Diversified Way  
Pikeville KY, 41051

458631

Plugging Map

Legend

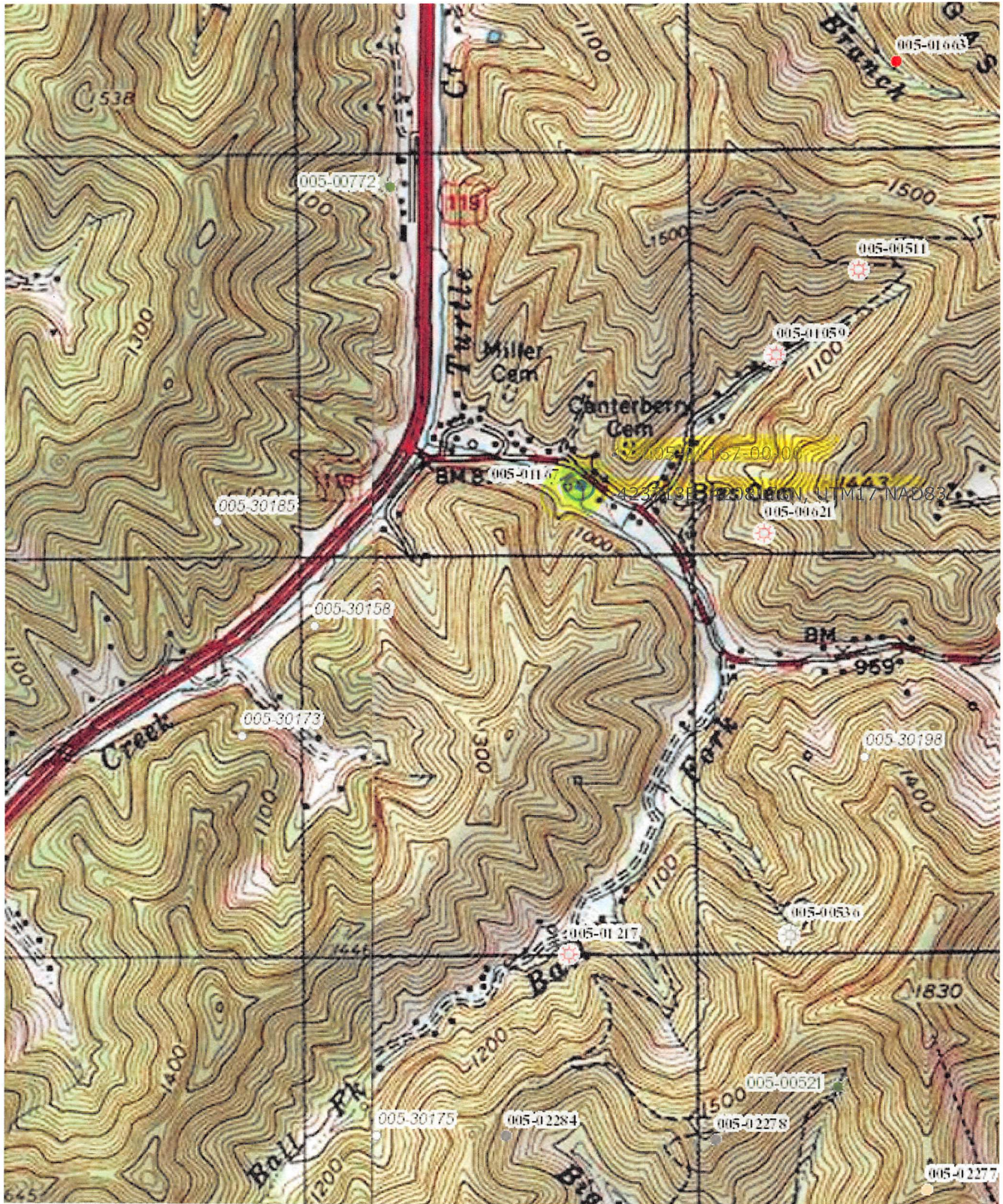
- Well
- ⊗ Sediment Control
- Access Road
- ▨ Pits
- ▭ Pad



Well No.: 458631  
 UTM83-17, Meters  
 North: 4237,12.75  
 East: 4208,177.73  
 Elev.: 263.6

Secondary Pit  
 Primary Pit

Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
WELL LOCATION FORM: GPS

API: 47-005-01167 WELL NO.: 458631

FARM NAME: A.C. Canterbury 7195

RESPONSIBLE PARTY NAME: Alliance Petroleum Co. LLC

COUNTY: Boone DISTRICT: Washington

QUADRANGLE: Madison

SURFACE OWNER: Donald and Sheryl Buckner

ROYALTY OWNER: Greenbrier Land Co.

UTM GPS NORTHING: 423,712.7

(865')

UTM GPS EASTING: 4,208,177.7 GPS ELEVATION: 263.6 meters

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature]  
Signature

Engineer III  
Title

8-20-19  
Date

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